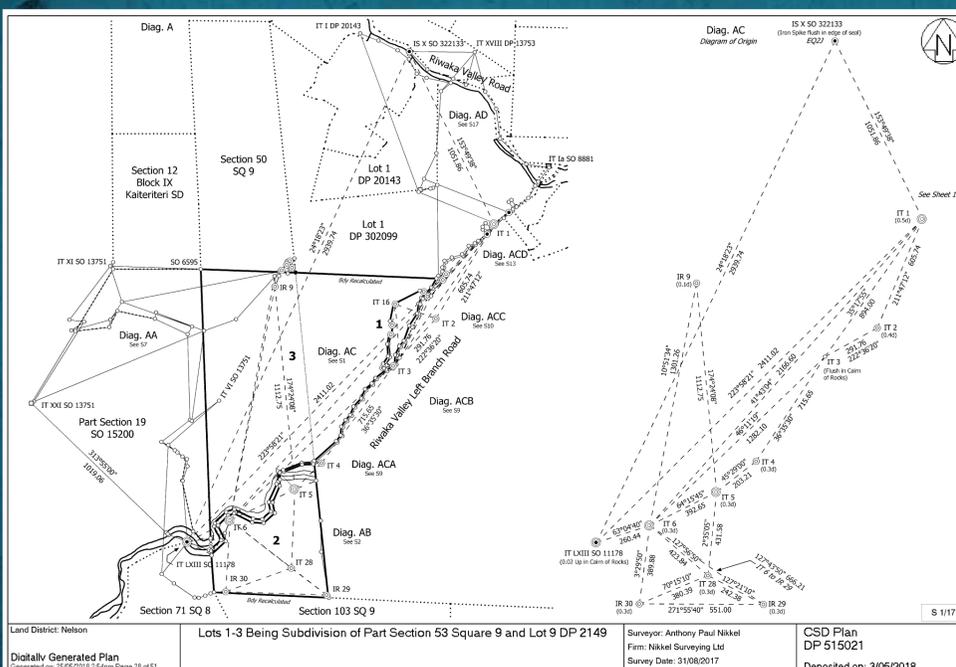
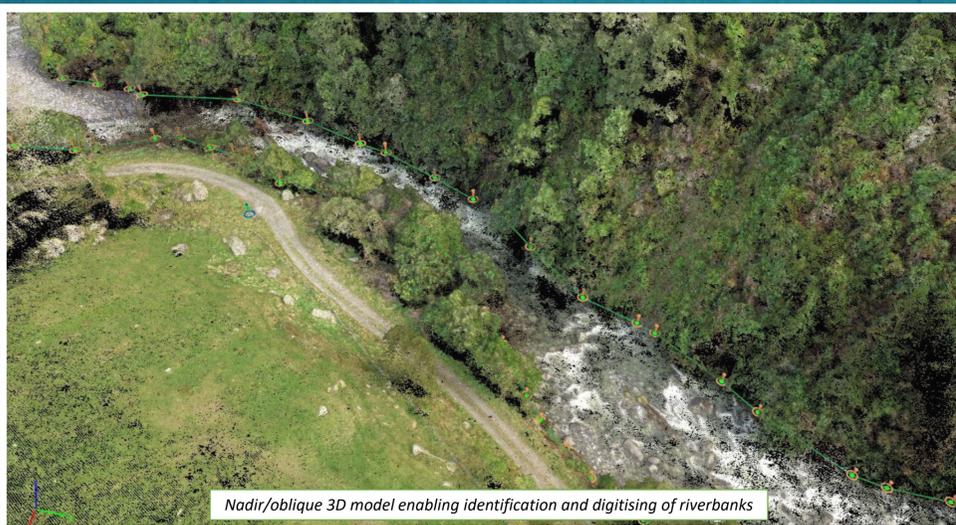


FINALIST : TONY NIKKEL – DP 515021 Drone Capture of a Water Boundary



The completion of DP 515021 presented several challenges including difficult terrain, limited survey control, an underlying limited as to parcels title and poor underlying survey data that contained multiple errors.

The project site is located along a narrow and steep sided valley mostly covered in mature forestry. Surveying in this environment required the application of best practice GNSS and total station measurement techniques to ensure accuracy and orientation was maintained.

Physical access limitations and safety concerns relating to the swift flowing and gorge like nature of the Riwaka River South Branch required innovative remote sensing techniques to define the riverbanks accurately and safely.

Legal difficulties were encountered when trying to comply with esplanade strip requirements. Persistence in communication with the relevant authorities and a solution-based approach ensured meaningful access was provided for the public enjoyment of the highly valued natural and recreational values of the South Branch Riwaka River.

In summary DP 515021 was a complex survey that required significant effort to overcome the physical and technical difficulties encountered.

